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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/867,766	05/31/2001	Makoto Fujiwara	60188-075 5700	
7590 01/13/2006 MCDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096		EXAMINER		
		POLTORAK, PIOTR		
			ART UNIT	PAPER NUMBER
			2134	

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		09/867,766	FUJIWARA, MAKOTO				
		Examiner	Art Unit				
		Peter Poltorak	2134				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICHEVER IS - Extensions of time ma after SIX (6) MONTHS - If NO period for reply it Failure to reply within Any reply received by	STATUTORY PERIOD FOR REPLY LONGER, FROM THE MAILING DA by be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. is specified above, the maximum statutory period we the set or extended period for reply will, by statute, the Office later than three months after the mailing dijustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1) Responsive	e to communication(s) filed on <u>01 No</u>	ovember 2005.					
	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this a	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in a	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claim	ıs						
4a) Of the a 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1</u> 7) ☐ Claim(s)	and 5 is/are pending in the application bove claim(s) is/are withdraw is/are allowed. and 5 is/are rejected. is/are objected to. are subject to restriction and/or	vn from consideration.					
Application Papers							
9) ☐ The specific	ation is objected to by the Examiner	r .					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S	S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
		·					
Attachment(s)							
1) Notice of Reference		4) Interview Summary	(PTO-413)				
	on's Patent Drawing Review (PTO-948) Ire Statement(s) (PTO-1449 or PTO/SB/08) Ite	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)				

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DETAILED ACTION

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1. The Amendment, and remarks therein, received on 3/28/2005 have been entered and carefully considered.

- 2. The Amendment introduces new limitations (with support in the specification) into the originally claims 1 and 5. The newly introduced limitation has required a new search and consideration of the pending claims. The new search has resulted in newly discovered prior art. New grounds of rejection based on the newly discovered prior art follow below.
- 3. Applicant did not address the 35 U.S.C. 112, second paragraph rejection that the examiner directed towards the phrase "storing ... data ... <u>address by address</u>" is not understood in the previous Office Action.
- 4. It is understood that applicant accepts the interpretation of one of ordinary skill in the art (examiner's) and as a result the rejection of claims 1-5 under 35 U.S.C. 112, second paragraph is moot.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 5. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hartung et al. (U.S. Patent 4438512) in view of Admitted Prior Art (APA) and further in view of Milios et al. (U.S. Patent No. 5860099).
- 6. As per claim 1 *Hartung et al.* teach a data storage unit 10 that stores the plurality of data and plurality of CRCs (col. 3 lines 41-43).

This reads on a storage data unit for storing data thereon address by address, and on a storage device for storing plural redundancy check data (CRC) address by address.

In Fig. 2 and col. 3 lines 68- col. 4 line 1 *Hartung et al.* teach data with a corresponding CRC and it is inherent that a CRC is derived by performing a predetermined calculation on the corresponding data.

Hartung et al. teach a CRC generator and compare circuits/programs that result in a data error being detected (col. 4 lines 33-36 and 55-col 5line 29).

This reads on a tester that includes a checker and comparing the checker calculation with each of the corresponding plural CRC data that is stored in the storage device address by address.

Although, *Hartung et al.* does not explicitly teach that the checker performs the same calculation as the predetermine calculation on each of the plural data in order to establish data integrity CRC must be calculated in the same manner so that the result is the same for each of the calculation on the same data.

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7. Hartung et al. do not teach that the storage is ROM and do not explicitly teach that

the plurality of data stored in the ROM is confidential data.

Admitted Prior Art (APA) teaches a ROM for storing plural confidential data thereon

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address by address (Fig. 4 and the specification pg. 1).

It would have been obvious to one of ordinary skill in the art at the time of applicant's

invention to implement Hartung et al.'s invention into the known ROM as taught by

APA. One of ordinary skill in the art would have been motivated to perform such a

modification in order to ensure integrity of the confidential data.

8. CRC is stored within the data storage unit (Hartung et al. Fig. 2) and each of the

plural CRCs and the plural confidential data are stored at mutually different address

(Fig. 2 and col. 3 lines 38-55), where (claim 4) each of the plural confidential data is

stored at certain data bit positions of an address and CRC at remaining data bit

positions of the same address (Fig. 4).

9. Milios et al. teach an integrated circuit comprising ROM, wherein ROM data can be

read only from an internal circuit (Milios et al., Fig. 1, col. 3 lines 37-62).

It would have been obvious to one of ordinary skill in the art at the time of applicant's

invention to configure Hartung et al. in view of APA invention so that the ROM data

can be read only from an internal circuit as taught by Milios et al. One of ordinary

skill in the art would have been motivated to perform such a modification in order to

protect data from unauthorized reading (Milios et al., col. 2 lines 4-51).

10. Claim 5 is substantially equivalent to claim 1; therefore claim 5 is similarly rejected.

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- 11. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hartung et al. (U.S. Patent 4438512) in view Katsuta (U.S. Patent 5671394) and further in view of Milios et al. (U.S. Patent No. 5860099).
- 12. As per claim 1 *Hartung et al.* teach a data storage unit 10 that stores the plurality of data and plurality of CRCs (col. 3 lines 41-43).

This reads on a storage data unit for storing data thereon address by address, and on a storage device for storing plural redundancy check data (CRC) address by address.

Fig. 2 and col. 3 lines 68- col. 4 line 1 *Hartung et al.* teach data with a corresponding CRC and it is inherent that a CRC is derived by performing a predetermined calculation on the corresponding data.

Hartung et al. teach a CRC generator and compare circuits/programs that result in a data error being detected (col. 4 lines 33-36 and 55-col 5line 29).

This reads on a tester that includes a checker and comparing the checker calculation with each of the corresponding plural CRC data that is stored in the storage device address by address.

Although, *Hartung et al.* does not explicitly teach that the checker performs the same calculation as the predetermine calculation on each of the plural data in order to establish data integrity CRC must be calculated in the same manner so that the result is the same for each of the calculation on the same data.

13. Hartung et al. do not teach that the storage is ROM and do not explicitly teach that the plurality of data stored in the ROM is confidential data.

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- 14. Katsuta teach a ROM for storing plural confidential data thereon address by address (Fig. 3 and col. col. 8 lines 42-44).
 - It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to implement *Hartung et al.'s* invention into the ROM as taught by *Katsuta*. One of ordinary skill in the art would have been motivated to perform such a modification in order to ensure integrity of the confidential data.
- 15. CRC is stored within the data storage unit (Hartung et al. Fig. 2) and each of the plural CRCs and the plural confidential data are stored at mutually different address (Fig. 2 and col. 3 lines 38-55), where (claim 4) each of the plural confidential data is stored at certain data bit positions of an address and CRC at remaining data bit positions of the same address (Fig. 4).
- 16. Hartung et al. in view of Katsuta do not explicitly teach that the confidential data can be read only from an internal circuit inside of the integrated circuit.
- 17. *Milios et al.* teach an integrated circuit comprising ROM, wherein ROM data can be read only from an internal circuit (*Milios et al., Fig. 1, col. 3 lines 37-62*).

 It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to configure *Hartung et al.* in view of *Katsuta* invention so that the ROM data can be read only from an internal circuit as taught by *Milios et al.* One of ordinary skill in the art would have been motivated to perform such a modification in order to protect data from unauthorized reading (*Milios et al., col. 2 lines 4-51*).
- 18. Claim 5 is substantially equivalent to claim 1; therefore claim 5 is similarly rejected.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Poltorak whose telephone number is (571) 272-3840. The examiner can normally be reached Monday through Thursday from 9:00 a.m. to 4:00 p.m. and alternate Fridays from 9:00 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on (571) 272-3838. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Signature |2 |2 9/05

GILBERTO BARRON Ja SUPERVISORY PATENT EXAMINER

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